

## CLAIMS

We claim:

1        1.    An intravenous solution bag adapted for receiving a  
2 fluid material administered from a needleless administering  
3 device having an outlet end, comprising:

4        a flexible bag defining a receiving chamber;

5        an access port defined in the bag adapted for permitting  
6 the fluid material to be administered into said receiving  
7 chamber, the access port including a valve having a housing  
8 defining an inlet and an outlet and a having a compressible  
9 valve member, the outlet opening into the receiving chamber; and

10       an outlet port adapted for releasing fluid from the  
11 receiving chamber through intravenous tubing;

12       wherein the inlet end of the valve housing is adapted for  
13 engagement with the outlet end of the needleless administering  
14 device; and

15       wherein the valve has a closed position in which the  
16 compressible valve member is seated flush with the inlet end of  
17 the valve housing and forms a seal to limit or prevent  
18 contamination from entering said receiving chamber through said  
19 fluid passageway, and an open position in which the compressible

20 valve member is compressed into the housing by the outlet end of  
21 the needleless administering device, breaking the seal in order  
22 to permit the fluid material administered by the needleless  
23 administering device to flow through the fluid passageway.

1 2. The I.V. solution bag of claim 1, wherein said access  
2 port is located at a bottom portion of said I.V. solution bag.

1 3. The I.V. solution bag of claim 1, further comprising a  
2 handle attached to said flexible bag adapted for hanging the  
3 I.V. solution bag upon a structure.

1           4. The I.V. solution bag of claim 1, further comprising an  
2 extension secured about said outlet port and in fluid  
3 communication with said receiving chamber, the extension having  
4 an inlet end, a generally hollow, tubular body, an engaging flange  
5 located externally between said inlet end and said tubular body  
6 and extending outwardly from an axis of the extension, and a  
7 puncturable seal located internally between said inlet end and  
8 said tubular body, the extension extending outwardly from the  
9 flexible bag and being adapted for engaging with a receiving  
10 device.

1           5. The I.V. solution bag of claim 1, wherein said outlet  
2 port is a spike access port.

1           6. The I.V. solution bag of claim 1, wherein said outlet  
2 port is located at a bottom portion of said flexible bag.

1        7. The I.V. solution bag of claim 1, wherein the inlet end  
2 of the valve housing is externally threaded.

1        8. The I.V. solution bag of claim 1, wherein the inlet end  
2 of said valve housing further comprises an external luer lok  
3 fitting configuration.

1        9. The I.V. solution bag of claim 8, wherein said luer  
2 fitting configuration is a male luer lok fitting.

1        10. The I.V. solution bag of claim 8, wherein said luer  
2 fitting configuration is a female luer fitting.

1        11. The I.V. solution bag of claim 1, wherein said  
2 compressible valve member is resilient.

1        12. The I.V. solution bag of claim 1, wherein the I.V.  
2 solution bag is manufactured as a single unit.